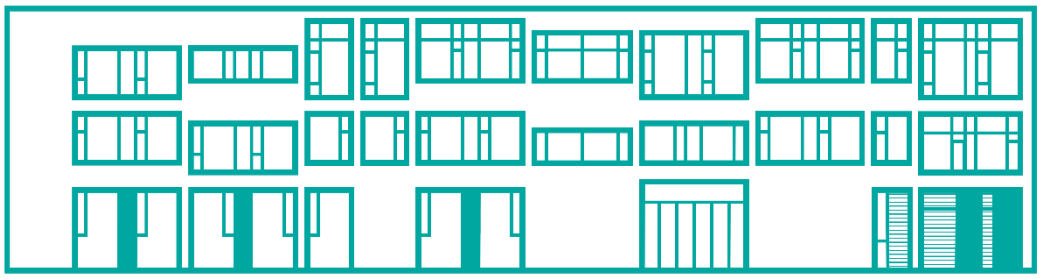
VSB TECHNICAL UNIVERSITY OF OSTRAVA | CENTRE FOR ENERGY AND ENVIRONMENTAL TECHNOLOGIES | INSTITUTE OF ENVIRONMENTAL TECHNOLOGY



CzePoCat 2023

11th Czech-Polish Catalytic Symposium

February 17, 2023 from 8:30 to 22:00

Meeting room NA 4, Aula VŠB-Technical University of Ostrava

17. listopadu 2172/15
708 00 Ostrava-Poruba
Czech Republic

attendant: +420 597 321 111
ID data mailbox: d3kj88v

IČO: 61989100
VATIN: CZ61989100

email: university@vsb.cz
www.vsb.cz

Program

8:30 – 8:50 – Registration

8:50 – 9:00 – Lucie Obalová, Jana Kukutschová (VSB- Technical University of Ostrava)

Opening speech

1. Section

Chairman: Anna Srebowata (Polish Academy of Sciences)

9:00 – 9:20 – Karolína Simkovičová (J. Heyrovsky Institute of Physical Chemistry, Prague)

CO_2 hydrogenation on nanostructured catalysts

9:20 – 9:40 – Rudolf Ricka (VSB- Technical University of Ostrava)

A comparative study of photocatalytic activity for H_2 production over non-reduced and reduced TiO_2 photocatalysts

9:40 – 10:00 – Babar Amin (University of Chemistry and Technology, Prague)

Ru-based catalysts for selective conversion of HMF to furan diols

10:00 – 10:20 – Aleksandra Jankowska (Jagiellonian University in Krakow)

Experimental evidence of NO-SCR mechanism in the presence of the copper-modified MCM-41 nanospheres

10:20 – 10:50 – Coffee break

2. Section

Chairman: Lucjan Chmielarz (Jagiellonian University in Krakow)

10:50 – 11:10 – Rahma Abid (Polish Academy of Sciences)

Continuous flow hydrogenation process using bimetallic catalysts for the production of pharmaceutical intermediates

11:10 – 11:30 – Snehasis Dutta (University of Chemistry and Technology, Prague)

Understanding anisole hydrodeoxygenation reaction pathway over nickel catalyst

11:30 – 11:50 – Anna Jakimińska (Jagiellonian University in Krakow)

Phototransformations of TiO_2/Ag_2O composite and their influence on photocatalytic performance of this material

11:50 – 12:00 – Taťána Barvíková (VSB- Technical University of Ostrava)

Production of aromatics and light olefins by catalytic pyrolysis of waste polyolefines

12:00 – 12:10 – Jiří Hrbáč (VSB- Technical University of Ostrava)

Dry reforming of methane on NiMg/Vermiculite

12:10 – 13:30 – Lunch

3. Section

Chairman: Nicolas Keller (University of Strasbourg)

13:30 – 13:50 – Kamil Urbanek (Jagiellonian University in Krakow)

$ZnFe_2O_4/TiO_2$ as the photocatalyst for CO_2 reduction

13:50 – 14:10 – Preeti (Lodz University of Technology)

Ru-based catalysts for the selective transformation of biomass-derived 5-hydroxymethylfurfural to 2,5-bishydroxymethyltetrahydrofuran

14:10 – 14:30 – Konrad Sobczuk (West Pomeranian University of Technology in Szczecin)

Effect of post-hydrolysis treatment of titanium dioxide on photocatalytic reduction of CO_2

14:30 – 14:50 – Kateřina Kupková (VSB-Technical University of Ostrava)

Selective catalytic oxidation of ammonia over Cu/MgAl

14:50 – 15:15 – Coffee break

4. Section

Chairman: . **Agnieszka Ruppert** (Lodz University of Technology)

15:15 – 15:35 – Stanislav Valtera (J. Heyrovsky Institute of Physical Chemistry, Prague)

Synthesis of pharmaceutical intermediates by continuous-flow hydrogenation using Fe-based catalysts

15:35 – 15:55 – Aneta Święs (Jagiellonian University in Krakow)

Ferrierite and its delaminated forms as effective catalyst for selected processes of environmental catalysis

15:55 – 16:15 – Jaroslav Aubrecht (University of Chemistry and Technology, Prague)

Looking for a sustainable hydrogenolysis catalyst - green chemistry perspective

16:15 – 16:35 – Barbora Grycová (VSB-Technical University of Ostrava)

LRI ENREGAT and its possible use in catalytic research

16:35 – 22:00 – Discussion and closing ceremony

Acknowledgement: This symposium was supported by „Research Infrastructure ENREGAT – Energy Waste Recovery and Gas Treatment, ID: LM2018098“ and by Czech Chemical Society – branch in Ostrava.